

# SEQUENCE LISTING

<110> Allan, Bernard  
Gregoire, Francine  
Lavan, Brian  
Moodie, Shonna  
Metabolex, Inc.

<120> Methods of Diagnosing & Treating Diabetes and Insulin  
Resistance

<130> 016325-013900US

<140> US 10/516,635

<141> 2004-11-03

<150> US 60/386,085

<151> 2002-06-04

<150> US 60/386,331

<151> 2002-06-05

<150> WO PCT/US03/17725

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<210> 8

<211> 469

<212> PRT

<213> Homo sapiens

<220>

<223> human transforming growth factor-beta (TGFB)  
inducible early growth response (TIEG)

<400> 8

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```

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      20                      25                      30

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Ala Leu Met Ser Met Ser Cys Ser Trp Lys Ser Asp Phe Lys Lys Tyr
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```

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Val Glu Asn Arg Pro Val Thr Pro Val Ser Asp Leu Ser Glu Glu Glu
      50                      55                      60

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```

Asn Leu Leu Pro Gly Thr Pro Asp Phe His Thr Ile Pro Ala Phe Cys
      65                      70                      75                      80

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Leu Thr Pro Pro Tyr Ser Pro Ser Asp Phe Glu Pro Ser Gln Val Ser
      85                      90                      95

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Asn Leu Met Ala Pro Ala Pro Ser Thr Val His Phe Lys Ser Leu Ser
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Asp Thr Ala Lys Pro His Ile Ala Ala Pro Phe Lys Glu Glu Glu Lys
      115                      120                      125

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Ser Pro Val Ser Ala Pro Lys Leu Pro Lys Ala Gln Ala Thr Ser Val
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Ile Arg His Thr Ala Asp Ala Gln Leu Cys Asn His Gln Thr Cys Pro
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Met Lys Ala Ala Ser Ile Leu Asn Tyr Gln Asn Asn Ser Phe Arg Arg
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Arg Thr His Leu Asn Val Glu Ala Ala Arg Lys Asn Ile Pro Cys Ala
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Val	Asp	Glu	Lys	Ala	Ser	Ala	Ala	Leu	Tyr	Asp	Phe	Ser	Val	Pro	Ser	210	215	220
Ser	Glu	Thr	Val	Ile	Cys	Arg	Ser	Gln	Pro	Ala	Pro	Val	Ser	Pro	Gln	225	230	235
Gln	Lys	Ser	Val	Leu	Val	Ser	Pro	Pro	Ala	Val	Ser	Ala	Gly	Gly	Val	245	250	255
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Pro	Val	Val	Thr	Thr	Val	Val	Pro	Ser	Thr	Pro	Pro	Ser	Gln	Pro	Pro	275	280	285
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Ala	Val	Met	Phe	Val	Val	Pro	Gln	Pro	Val	Val	Gln	Ser	Ser	Lys	Pro	305	310	315
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Ser	Arg	Ile	Arg	Ser	His	Ile	Cys	Ser	His	Pro	Gly	Cys	Gly	Lys	Thr	355	360	365
Tyr	Phe	Lys	Ser	Ser	His	Leu	Lys	Ala	His	Thr	Arg	Thr	His	Thr	Gly	370	375	380
Glu	Lys	Pro	Phe	Ser	Cys	Ser	Trp	Lys	Gly	Cys	Glu	Arg	Arg	Phe	Ala	385	390	395
Arg	Ser	Asp	Glu	Leu	Ser	Arg	His	Arg	Arg	Thr	His	Thr	Gly	Glu	Lys	405	410	415
Lys	Phe	Ala	Cys	Pro	Met	Cys	Asp	Arg	Arg	Phe	Met	Arg	Ser	Asp	His	420	425	430
Leu	Thr	Lys	His	Ala	Arg	Arg	His	Leu	Ser	Ala	Lys	Lys	Leu	Pro	Asn	435	440	445
Trp	Gln	Met	Glu	Val	Ser	Lys	Leu	Asn	Asp	Ile	Ala	Leu	Pro	Pro	Thr	450	455	460
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<210> 9

<211> 3045

<212> DNA

<213> Mus musculus

<220>  
 <223> mouse transforming growth factor-beta (TGFB)  
 inducible early growth response (TIEG) homolog  
 cDNA

<220>  
 <221> CDS  
 <222> (114)..(1553)  
 <223> TIEG homolog

<400> 9

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<210> 10  
 <211> 479  
 <212> PRT  
 <213> Mus musculus

<220>  
 <223> mouse transforming growth factor-beta (TGFB)  
 inducible early growth response (TIEG) homolog

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 Ala Glu Gln Ser Asp Phe Glu Ala Val Glu Ala Leu Met Ser Met Ser  
 35 40 45  
 Cys Asp Trp Lys Ser His Phe Lys Lys Tyr Leu Glu Asn Arg Pro Val  
 50 55 60  
 Thr Pro Val Ser Asp Thr Ser Glu Asp Asp Ser Leu Leu Pro Gly Thr  
 65 70 75 80  
 Pro Asp Leu Gln Thr Val Pro Ala Phe Cys Leu Thr Pro Pro Tyr Ser  
 85 90 95  
 Pro Ser Asp Phe Glu Pro Ser Gln Gly Ser Asn Leu Thr Ala Ser Ala  
 100 105 110  
 Pro Ser Thr Gly His Phe Lys Ser Phe Ser Asp Ala Ala Lys Pro Pro  
 115 120 125  
 Gly Ala Thr Pro Phe Lys Glu Glu Glu Lys Asn Pro Leu Ala Ala Pro  
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 Pro Leu Pro Lys Ala Gln Ala Thr Ser Val Ile Arg His Thr Ala Asp  
 145 150 155 160  
 Ala Gln Leu Cys Asn His Gln Ser Cys Pro Val Lys Ala Ala Ser Ile  
 165 170 175  
 Leu Asn Tyr Gln Asp Asn Ser Phe Arg Arg Arg Thr His Gly Asn Val  
 180 185 190  
 Glu Ala Thr Arg Lys Asn Ile Pro Cys Ala Ala Val Ser Pro Asn Arg  
 195 200 205  
 Ser Lys Pro Glu Pro Ser Thr Val Ser Asp Gly Asp Glu Lys Ala Gly  
 210 215 220  
 Ala Ala Leu Tyr Asp Phe Ala Val Pro Ser Ser Glu Thr Val Ile Cys  
 225 230 235 240  
 Arg Ser Gln Pro Ala Pro Ser Ser Pro Val Gln Lys Ser Val Leu Val  
 245 250 255

Ser Ser Pro Thr Val Ser Thr Gly Gly Val Pro Pro Leu Pro Val Ile  
 260 265 270  
 Cys Gln Met Val Pro Leu Pro Ala Asn Asn Ser Leu Val Ser Thr Val  
 275 280 285  
 Val Pro Ser Thr Pro Pro Ser Gln Pro Pro Ala Val Cys Ser Pro Val  
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 305 310 315 320  
 Pro Gln Pro Val Val Gln Ser Pro Arg Pro Pro Val Val Ser Pro Ser  
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 Gly Thr Arg Leu Ser Pro Ile Ala Pro Ala Pro Gly Phe Ser Pro Ser  
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 Ala Ala Arg Val Thr Pro Gln Ile Asp Ser Ser Arg Val Arg Ser His  
 355 360 365  
 Ile Cys Ser His Pro Gly Cys Gly Lys Thr Tyr Phe Lys Ser Ser His  
 370 375 380  
 Leu Lys Ala His Val Arg Thr His Thr Gly Glu Lys Pro Phe Ser Cys  
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 Ser Trp Lys Gly Cys Glu Arg Arg Phe Ala Arg Ser Asp Glu Leu Ser  
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 Arg His Arg Arg Thr His Thr Gly Glu Lys Lys Phe Ala Cys Pro Met  
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 Cys Asp Arg Arg Phe Met Arg Ser Asp His Leu Thr Lys His Ala Arg  
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<210> 11  
 <211> 3115  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> rat transforming growth factor-beta (TGFB)  
 inducible early growth response (TIEG) homolog  
 cDNA

<220>  
 <221> CDS  
 <222> (316)..(1758)  
 <223> TIEG homolog

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<210> 12  
 <211> 480  
 <212> PRT  
 <213> Rattus norvegicus

<220>  
 <223> rat transforming growth factor-beta (TGFB)  
 inducible early growth response (TIEG) homolog

<400> 12

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Ala	Gln	Leu	Cys	Asn	His	Gln	Ser	Cys	Pro	Val	Lys	Ala	Ala	Ser	Ile	165	170	175	
Leu	Asn	Tyr	Gln	Asp	Asn	Ser	Phe	Arg	Arg	Arg	Thr	His	Ile	Asn	Val	180	185	190	
Glu	Ala	Thr	Arg	Lys	Asn	Ile	Pro	Cys	Ala	Ala	Val	Ser	Pro	Asn	Arg	195	200	205	
Pro	Lys	Pro	Glu	Pro	Ser	Thr	Ala	Ala	Asn	Gly	Ala	Glu	Lys	Ala	Gly	210	215	220	
Thr	Ala	Pro	Tyr	Asp	Phe	Ala	Val	Pro	Ser	Ser	Glu	Thr	Val	Ile	Cys	225	230	235	240
Arg	Ser	Ser	Gln	Pro	Ala	Pro	Thr	Ser	Pro	Val	Gln	Lys	Ser	Val	Leu	245	250	255	
Met	Ser	Ser	Pro	Thr	Val	Ser	Thr	Gly	Gly	Val	Pro	Pro	Leu	Pro	Val	260	265	270	
Ile	Cys	Gln	Met	Val	Pro	Leu	Pro	Ala	Asn	Asn	Ser	Leu	Val	Thr	Thr	275	280	285	
Val	Val	Pro	Ser	Ser	Pro	Pro	Ser	Gln	Pro	Pro	Ala	Val	Cys	Ser	Pro	290	295	300	
Val	Leu	Phe	Met	Gly	Thr	Gln	Val	Pro	Lys	Gly	Thr	Val	Met	Phe	Val	305	310	315	320

Val Pro Gln Pro Val Val Gln Ser Pro Lys Pro Pro Val Val Ser Pro  
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 Asn Gly Thr Arg Leu Ser Pro Ile Ala Pro Ala Pro Gly Phe Ser Pro  
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 Ser Ala Ala Arg Val Thr Pro Gln Ile Asp Ser Ser Arg Val Arg Ser  
 355 360 365  
 His Ile Cys Ser His Pro Gly Cys Gly Lys Thr Tyr Phe Lys Ser Ser  
 370 375 380  
 His Leu Lys Ala His Val Arg Thr His Thr Gly Glu Lys Pro Phe Ser  
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 Cys Ser Trp Lys Gly Cys Glu Arg Arg Phe Ala Arg Ser Asp Glu Leu  
 405 410 415  
 Ser Arg His Arg Arg Thr His Thr Gly Glu Lys Lys Phe Ala Cys Pro  
 420 425 430  
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 435 440 445  
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<212> DNA

<213> Homo sapiens

<220>

<223> human transforming growth factor-beta (TGFB)  
 inducible early growth response (TIEG) splice  
 variant cDNA

<220>

<221> CDS

<222> (87)..(1529)

<223> TIEG splice variant

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<220>
<223> human transforming growth factor-beta (TGFB)
      inducible early growth response (TIEG) splice
      variant

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Thr Ala Glu Lys Ser Asp Phe Glu Ala Val Glu Ala Leu Met Ser Met
      35             40             45

Ser Cys Ser Trp Lys Ser Asp Phe Lys Lys Tyr Val Glu Asn Arg Pro
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Val Thr Pro Val Ser Asp Leu Ser Glu Glu Glu Asn Leu Leu Pro Gly
      65             70             75             80

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Asp	Ala	Gln	Leu	Cys	Asn	His	Gln	Thr	Cys	Pro	Met	Lys	Ala	Ala	Ser	
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Ile	Leu	Asn	Tyr	Gln	Asn	Asn	Ser	Phe	Arg	Arg	Arg	Thr	His	Leu	Asn	
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		275					280					285				
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Val	Pro	Gln	Pro	Val	Val	Gln	Ser	Ser	Lys	Pro	Pro	Val	Val	Ser	Pro	
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385					390					395					400	



